SYMPOSIA SPHERE INC.

WCAEEC-2026



5th Edition

World Civil, Architect & Environmental Engineering Congress 2026

May 25-27, 2026 | Hybrid

secretary@worldcaeecongress.com https://worldcaeecongress.com/

Day 1 | MAY 25, 2026 | Virtual Presentations | UK Time Zone GMT+1	
08:20 - 08:30	**Welcome Speech**
08:30 - 09:00	**Plenary**
Title: AI-Enabled Digital Twins for the Conservation and Adaptive Management of Historic and Contemporary Architectural Assets	
Spartaco Paris, Sapienza University of Rome, Italy	
09:00 - 09:30	**Keynote**
Title: Comparative Assessment of Sequential and Simultaneous Corrosion–Fatigue Effects in Deep Reinforced Concrete Beams	
Aamna Sarfaraz, Indian Institute of Technology Kanpur, India	
09:30 - 10:00	**Keynote**
Title: PARADIS FRP BRIDGE Bergen	
Håkon Tryti Nilssen, Vestland County Council, Norwary	
10:00 - 10:30	**Keynote**
Title: Safe and Sustainable by Design Polymer Materials or Composites	
Blaž Likozar, National Institute of Chemistry, Slovenia	
10:30 - 11:00	**Keynote**
Title: Macrofinancial Drivers of Housing Market Vulnerabilities: House Price at Risk Evidence from Croatia	
Sandra Matuhina, Ekvilibris Consultancy and Engineering, Croatia	
11:00 - 11:30	**Keynote**
Title: Open Data, Circular Beta: Rethinking Construction for the Next Era	
Maja-Marija Nahod, University of Zagreb Faculty of Civil Engineering, Croatia	
11:30 - 11:55	**P1**
Title: Experimental Evaluation of the Cyclic Lateral Performance of Precast Concrete Shear Walls Using Bolted Pocket Connections	
Juho Ham, Kyung Hee University, Republic of Korea	

11:55 - 12:20	P2
Title: Experimental Study on Structural Behavior of Shear Wall Joints with Bolted-type Joint Boxes	
In Ae Kim, Kyung Hee University, Republic of Korea	
12:20 - 12:50	**Plenary**
Title: Agricultural Territory of Bulgaria – Current Challenges and Possible Management Improvements	
Milena Moteva, University of Architecture, Civil Engineering and Geodesy, Bulgaria	
12:50 - 13:15	**P3**
Title: Recycled Aggregates for Road Base Use via Green Building Demolition – A Case Study of the Taoyuan Aerotropolis Development in Taiwan	
Rong-yau Huang, Taiwan Construction Research Institute, Taiwan	
13:15 - 13:40	**P4**
Title: Mapping and Sculpting the Giant:Architectural and Structural Aspects of the GWK statue	
Yuke Ardhiati, Universitas Pancasila of Jakarta, Indonesia	
13:40 - 14:10	**Keynote**
Title: Earthquake is an Ineludible Natural Calamity and One of the Biggest Threats to the Manmade Environment	
Pritam Hait, JSPM University Pune, India	
14:10 - 14:40	**Keynote**
Title: Corrosion-induced Cracking Critically Governs the Durability of Reinforced Concrete (RC) Structures	
Pankaj Mishra, Indian Institute of Technology Kanpur, India	
14:40 - 15:10	**Keynote**
Title: Low-Carbon Concrete: Recent Advancements	
Ahmed Bediwy, United Arab Emirates University, UAE	
15:10 - 15:40	**Keynote**
Title: Comfort and Performance in Human-Eco-Centric Built Environments	
Khan Zahida, Ball State University, USA	
15:40 - 16:10	**Plenary**
Title: Performance Evaluation of Recycled Concrete Aggregates for New Structural Concrete Applications	
Zhifu Yang, Middle Tennessee State University, USA	

16:10 - 16:40	Plenary
Title: Materials Atlas -Knowledge Sharing Platform for Sustainable Coastal Construction	
Di Wu, New York Institute of Technology, USA	
16:40 - 17:20	**Group**
Title: Energy and Carbon Simulation Studies for an office building in Eight Climate Zones Using Various Material Types	
Duro Ajidagba, Richard Bassimah, Kriti Manandhar, and Zahida Khan, Ball State University, USA	
17:20 - 18:00	**Group**
Title: Continuous IAQ Monitoring: A Year-long study of PM2.5 and PM10 levels for a Higher Educational Building in Renovation	
Cherry Tial and Zahida Khan, Ball State University, USA	
18:00 - 18:30	**Keynote**
Title: Urban planning and smart cities topics in connection with Resilient City Infrastructure Design	
Carolina Blanco Chaparro, Los Andes University, Colombia	
End of Day 1	

Day 2 | May 26, 2026 | UK Time Zone GMT+1	
09:30 - 10:00	**Plenary**
Title: Towards a Livable Qatar: Enhancing Urban Spaces with Green Infrastructure	
Mujtaba Hamidy, Ministry of Municipality, Qatar	
10:00 - 10:30	**Plenary**
Title: Performance-Based Optimization of Aerodynamically Tuned Core–Tube Systems for Resilient Supertall Buildings under	
Estovio Farrel Timothy, Shanghai Construction Group Co., Ltd, China	
10:30 - 11:00	**Keynote**
Title: Applications of ABAQUS in Structural Engineering: Towards Innovative Numerical Solutions for Construction Challenges under Extreme Conditions	
Bashir Ali Khalifa Saleh, Libyan, Academy- Tripoli	

11:15 - 11:45	Keynote
Title: Impact of Affordable and Sustainable Housing Delivery on Urban Planning and Smart Cities	
Imisioluseyi Akinyede, Cape Peninsula University of Technology, South Africa	
11:45 - 12:15	**Keynote**
Title: Bibliometric Analysis of Global Research Trends on the 15 Minute City	
Yu-sheng Shen, University of Taipei, Taiwan	
12:15 - 12:45	**Keynote**
Title: Digital Twin-Driven Urban Ecosystems: A Framework for Predictive Management and Real-Time Sustainability Metrics	
Jose Augusto Paixao Gomes, Federal Fluminense University, Brazil	
14:15 - 14:45	**Keynote**
Title: FDEM modelling of rock fracture and fragmentation induced by contour blasting during deep tunnelling	
Haoyu Han, University of tasmania, Australia	
14:45 - 15:15	**Keynote**
Title: Creation in Armenia of the World Museum of Seismic Isolation - its Idea, Concept, Structural Solution and Analysis	
Mikayel Melkumyan, Melkumyan Seismic Technologies LLC	
15:15 - 15:45	**Keynote**
Title: The World's Need for A New Unified Urban Paradigm	
Julio Perez Hernandez, University of Notre Dame, USA	
16:00 - 16:30	**Keynote**
Title: Sustainable Waste Management Moving Toward Circular Economy	
Tapas K. Das, Saint Martin's University, Washington	
16:30 - 17:00	**Keynote**
Title: Framework for Evaluating Pavement Condition in Low Volume Rural Roads	
Raji Reddy Myakala, National Institute of Technology, India	
End of Day 2	

Day 3 | May 27, 2026 | UK Time Zone GMT+1	
09:30 - 10:00	**Keynote**
Title: Microplastic fibers detection in laundry wastewater: an areal quantification based method	
Silvia Lupato, Politecnico di Torino, Italy	
10:00 - 10:30	**Keynote**
Title: Effects of Geometric Imperfections on the Overall Stability of Steel Structures: Interaction Phenomena between analytical Analysis Approaches, and Design Considerations	
Abdelouahab Khelil, Lorraine university, France	
10:30 - 11:00	**Keynote**
Title: Depth-Dependent Riverbed Reconstruction Using Airborne Bathymetric LiDAR for Hydraulic Analysis and Flood Risk Management	
Jaebin Lee, Mokpo National University, South Korea	
11:15 - 11:45	**Oral**
Title: High quality development of soil and water conservation	
Zhongsheng Guo, Northwestern A&F University, Yangling, China	
11:45 - 12:15	**Oral**
Title: Modeling Water Flux in Forward Osmosis Under Concentration Polarization Limitations	
Abdulrahman Alalawi, King Abdulaziz city for science and technology, KACST	
12:15 - 12:45	**Oral**
Title: Impact of Architectural Form on Human Perception: A Neurocognitive Experiment	
Abhijeet Pal, Apcotex Industries Limited, india	
14:00 - 14:30	**Keynote**
Title: The presentation will examine how governance frameworks interact with social structures, particularly gender, in shaping displacement experiences,Precarity and justice narratives and adaptive responses in vulnerable coastal communities	
Madhurima Chatterjee, University of Delhi, India	
14:30 - 15:00	**Oral**
Title: Precast and Prefabrication: Shaping the Future of Industrialised Construction	
Shubham Singhal, Earthquake Engineering Research Centre IIIT Hyderabad, India	

15:00 - 15:30	Keynote
Title: Mechanical behavior and constitutive model of structural steel under the coupled effects of high temperature and strain Rate	
Yonghui Wang, Harbin Institute of Technology, China	
15:30 - 16:00	**Keynote**
Title: Resilient Transportation Infrastructure for a Changing Climate: Integrating Policy, Technology, and Community Adaptation	
Hidayat Aditya, University in Bandar Lampung, Indonesia	
End of Day 3	